



# How to Make it to CrossFit Games



M. K., data scientist, 09.12.2021



# Challenge



Millions of men and women participate in CrossFit Open, but only hundreds get accepted to the Games.

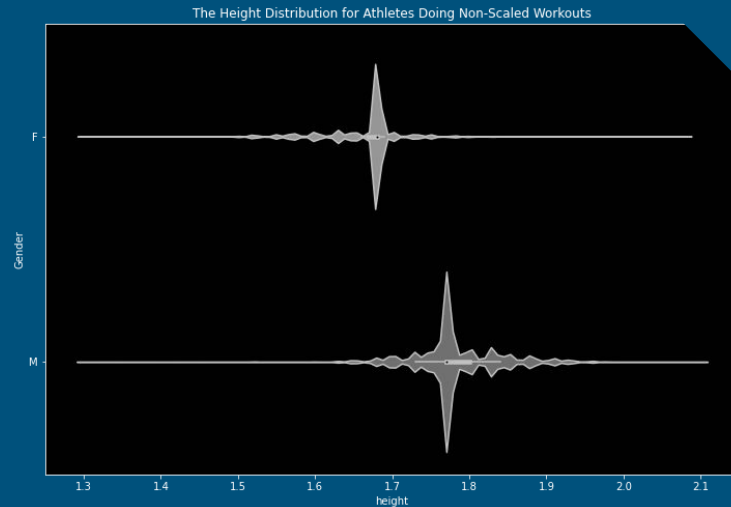
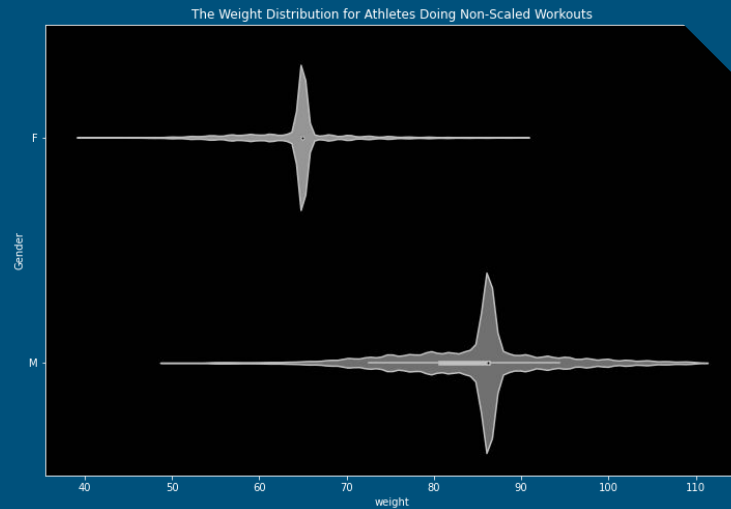
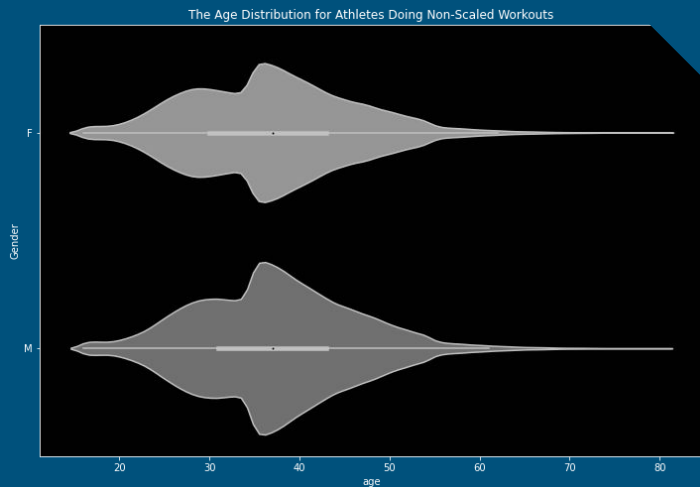
How can we identify the ones who've got the winning potential from those who have not?

We have answers!

---

# Data Findings

- 5 mln+ rows of data for 2019 and 2020.
- The variance within genders is small in each dimension except for age.



# Logistic Regression Shows the Best Performance

---

The target variable for the logistic regression model is 'Accepted' to the Games or 'Not'. A high false positive rate points to the presence of people with the winning potential.

## Men

- Recall rate for men athletes is 99%

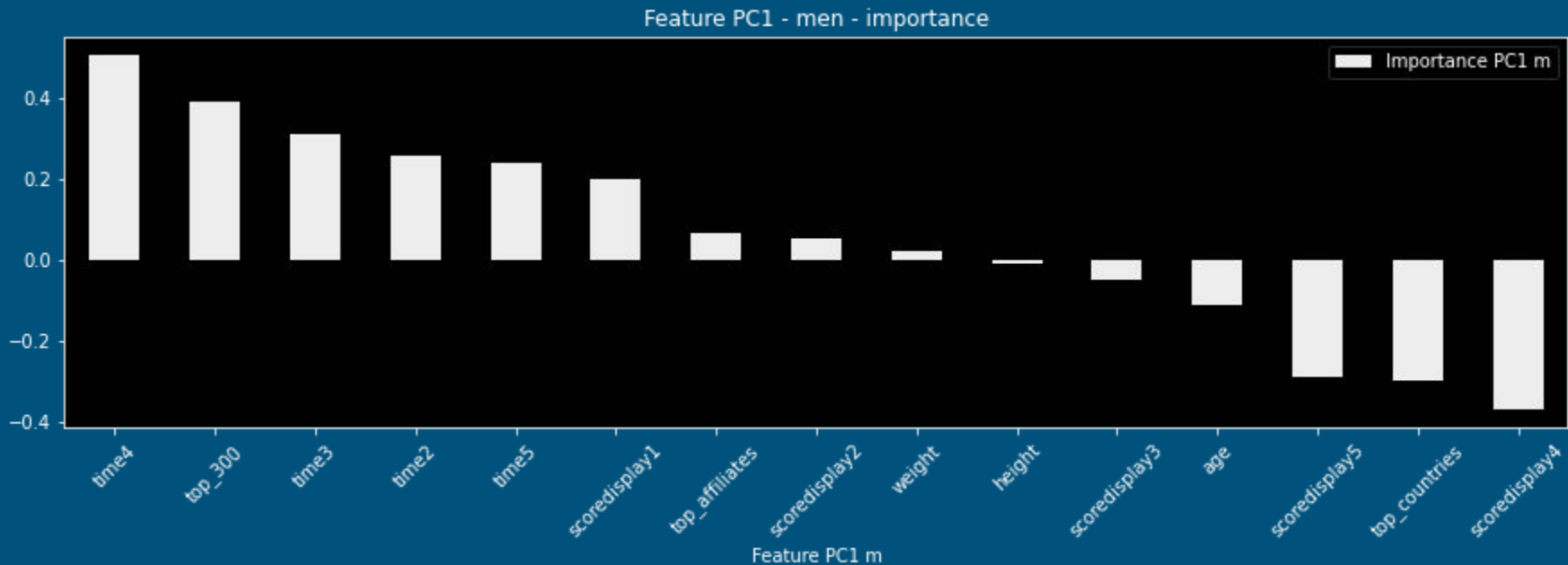


## Women

- Recall rate for women is 97%



# What are the Winning Qualities?



# Business Cases

---

This model for identifying athletes with a winning potential can be also used in many organizations that rely on top performers for selecting personnel, e.g. consulting, military, banking etc.

